

Washington, DC – Today, Congressman Joe Sestak (D-PA), member of the Armed Services Committee and highest ranking military officer to be elected to the US Congress voted for the Defense Appropriations Bill, which brings our military into the 21st century and helps businesses around the country. Congressman Sestak also secured \$19 million for area business that will not only help strengthen our defense security but it will improve our regional economy. — "This funding will launch and continue many vital research efforts in equipment technology, bio-terrorism, wireless technologies and software in Pennsylvania that assist our men and women in uniform," stated Congressman Sestak. "I am proud to have gotten funding for these critical programs. Such investments in defense technologies and research will not only benefit our military but will also continue to drive our local and national economy forward."

Since he has been in office, Congressman Sestak has met with numerous businesses throughout the district and has worked with these companies in pursuing those initiatives and ventures that support his goal of transforming the roles and missions of the military, including vital research efforts in equipment technology, bio-terrorism, logistics systems, wireless technologies, interoperability, emergency broadband systems, and other areas that assist our men and women in uniform. Because of these meetings, he was able to relay to the Defense Appropriations Committee the important work that is being done in his district toward this critical transformation. These new technologies will not only create new opportunities for small business in our region, but it will improve our military and transform it for the 21st Century.

These meetings led to Congressman Sestak's work on this bill and made sure the following provisions were added to the legislation:

- \$5 million for Gestalt for Distributed Mission Interoperability Toolkit (DMIT) (Air Force Research & Development): DMIT is a suite of tools that enables an enterprise architecture for on-demand, trusted, interoperability among and between mission-oriented C4I systems based on lessons learned from Operation Iraqi Freedom. This funding will allow DMIT to be extended to Joint and coalition requirements, as well as address current strategic weaknesses in Air Force AOC management years ahead of current schedules. DMIT has already begun joint integration of time-critical-targeting with the Air Force, Army, and Navy. DMIT's use of commercial services-based architectures and telephony standards allows interactive information sharing between mission critical applications by breaking down the traditional application stovepipes. This services-based architecture is critical to supporting Joint and coalition missions and exercises because of the requirement for rapid event staging, complex security levels, and involves diverse participants.
- \$4.25 million for Rajant for a Portable Mobile Emergency Broadband Systems (PMEBS) (Army Research & Development): The Rajant Corporation, in conjunction with CECOM/CERDEC,

has developed a portable wireless digital broadband system that has distinctive and broad applications for the military. These systems consist of portable battery powered units called BreadCrumb® which offer a solution for military personnel seeking to have access to high bandwidth wireless networks in any situation and any environment. Breadcrumb portable and wireless networks are easy to deploy, secure, portable and give war fighters access to vital information at crucial times, thus helping to save time, money and most importantly, lives. Each BreadCrumb device is a small, battery-operated unit that has the capabilities of: 1) instantly establishing a wireless backbone network with other BreadCrumb devices; 2) operating as a wireless or wired network access point for computers, sensors, video cameras and voice communication devices compliant with networking standards; and 3) bridging communications on the BreadCrumb network with other wired and wireless networks. Different versions of BreadCrumbs have been developed to address specific needs and allowing them to be worn by personnel, attached to a moving vehicle, or used in any environment or terrain. Funding will be used to further improve mobility, range, bandwidth and portability. Development in these areas will focus on size reduction, improved packaging, lower power consumption, improved radio and antenna performance, enhanced security key management, and other factors improving the design of the mobile/portable devices. This will also include packaging and powering improvements to further enhance the wearable capabilities of the BreadCrumb devices while meeting the intrinsically save requirements for use in hazardous environments.

- \$3.1 million for LithChem for an Advanced Lithium Battery System for Multiple Kill Vehicle (MVK) with Double the Power (Defense Research & Development): Thermal reserve batteries are an important necessary component for the proper function and optimum performance of guided missiles, many munitions systems, rockets, and other military systems requiring instant high power after a long period of storage. The technology and performance for these difficult, expensive, hand made batteries has not changed appreciably in 20 years. LithChem (Toxco) has developed a new safe, primary prismatic lithium reserve cell/battery (non-thermal) which has 8 times the power density (4 kW/kg) and twice the energy density (120 Wh/kg) over the current reserve batteries. This new LithChem cell operates at 4.3 V compared to the 1.5 V of the current reserve battery cells providing additional savings in space and weight and also has long term storability. Not only are these performance features a major advance for reserve batteries, but these new LithChem cells will have a much lower unit cost with increased reliability due to a unique automated cell manufacturing process. In this program, LithChem will work with Lockheed-Martin to develop and manufacture this new battery for the Multiple Kill Vehicle as a first application and demonstration of this major improvement in reserve batteries for the Missile Defense Agency. The successful development and manufacture of this new high power reserve battery will offer an opportunity for the first substantial improvement in performance cost, and reliability in 20 years in reserve batteries. This dramatically improved LithChem reserve battery will add significant performance improvement for current and future US guided missile systems, rockets, and smart munitions. LithChem will become a significant new All-American battery supplier to the US Government.

- \$2 million for Silicon Power for Electromagnetic Gun Initiative (Army Research & Development): Silicon Power Corporation designs, fabricates and markets a wide range of power semiconductor devices for a wide variety of pulse power and power applications. This funding would be used to further develop advanced Lightweight Silicon Switch (LSS) technology for use as the primary pulse-power switching element in a mobile electromagnetic gun system (EMGun). The goal of the effort is to prototype an enhanced 125-millimeter switch based on

LSS technology and perform a preliminary design of a 150-millimeter LSS switch that would achieve the established performance requirements for the Army's target EM Gun system.

- \$2 million for PolyMedix for an Initiative for Defense Against Bio-Warfare and Bio-Terrorism (Defense Research & Development): Funding will be used by PolyMedix to develop antimicrobial drugs with a completely novel mechanism of action that is unlikely to allow development of resistance, and which is expected to be effective against a wide range of bacterial agents and even against pathogens that have been bio-engineered to resist existing antibiotics (because it attacks the bacterial cell wall, not the bacterial metabolic machinery).

The requirement relates to the enhanced degree of readiness that has been made a top priority since 9/11, and which has been made a priority in all branches of the military.

- \$1.6 million for Lockheed for Tomahawk and Tomahawk Mission Planning Center (Navy Research & Development)

The Tomahawk Weapons Control System (TTWCS) provides the launch capability for surface and submarine platforms. TTWCS provides the user interface to all shipboard functions related to Tomahawk launch. It interfaces with external systems for command and control, situational awareness and to obtain required data to initialize the Tomahawk cruise missile before launch. After launch, TTWCS interfaces with the missile in flight, via satellite communications, to provide in-flight monitor and control functions. This funding will be used for continued development of TTWCS capabilities..

- \$1 million for Dragonfly Pictures, Inc. for Beneficial Infrastructure for Rotorcraft Risk Reduction Demonstrations (BIRRRD) (Army Research & Development): The Army Research Lab has requested a number of DP-5X aircraft to test advanced blade, engine, weapon, and tail boom technologies that it has developed for manned and unmanned rotorcraft. This funding will be used by Dragonfly Pictures to deliver two DP-5X unmanned helicopters to the Army Research Lab (ARL).

"Two important goals I had when I came to Washington was to increase our national and economic security," added the Congressman, "I never forget who sent me here and what my job is. I worked hard to ensure this bill goes a long way towards achieving those two goals: improve our military and encourage economic development."

At stake in this bill is nothing short of the security of our nation. The bill addresses that responsibility head on, fully funding our troops so that they are prepared for whatever emergencies may arise, providing them with first class weapons and equipment, and ensuring that they and their families are well taken care of. At the same time, the bill realizes its obligation to meet the recent dependence on the use of contractors with increased support for their management and oversight. It likewise makes a commitment to fiscal responsibility. This bill provides \$925 million, \$635 million above 2007, specifically to address equipment shortfalls of the National Guard and Reserve in order to help these forces meet the demands of overseas deployments and respond to natural disasters here at home. This amount meets the requirements identified by the Chief of the National Guard Bureau in the "Essential 10 Equipment Requirements for the Global War on Terror."

It also supports the Defense Department's plans to increase the size of the Army and Marine Corps to reduce the pressure to extend troop deployments. Specifically, the bill covers the costs of increasing the Army by 7,000 new members and the Marine Corps by 5,000 new members – including both the personnel costs and the associated equipment and outfitting costs. For the Army alone, the equipping costs amount to more than \$4 million and, for the Marine Corps, the equipping costs amount to more than \$2 million. To this end, it increases of 13 percent for home-station training, so that our troops are prepared for any eventual deployment and outfits a new eighth Stryker Brigade of the highly successful troop carrier to support the Army's evolution to a larger, more rapidly deployable force.

Our troops and their families need some relief and support and this bill offers that in the form of a pay raise (3.5 percent, which is 0.5 percent more than the President requested) and better health care. This provides \$416 million more than the President's request for military health care, rejects the President's proposal to inflict \$1.9 billion in TRICARE fee and premium increases on our troops and military retirees and invests in initiatives to improve military health care – including fostering better coordination between the Defense Department and the Department of Veterans' Affairs, improving the Department's health record-keeping, enhancing preventative medicine programs, and advancing military medical research.

Beyond that this supplies \$558.4 million more than the President's request, for military family support, including childcare centers, education programs and the family advocacy program which supports military families affected by the war and child and spousal abuse. It contains \$1.3 billion more than the President's request to repair barracks, improve child care facilities, and improve community services at military bases, to address the strain put on facilities by changes in force structure, base closures, and a global repositioning of our troops. It also bolsters base security, investing \$141.9 million above the President's request for perimeter security force protection and related security improvements, to protect DOD bases, schools, and hospitals from terrorist attacks.

The bill contains certain key fiscal discipline provisions, such as prohibiting the Department of Defense from transferring funds without Congressional approval and from initiating of new programs through the use of reprogramming.

From 2000 to 2005, DOD contracting-out increased by 73 percent, but oversight has actually decreased. This increases the budget of certain critical DOD oversight agencies – including providing an increase of \$24 million for the DOD Inspector General, \$17 million for the Defense

Contract Management Agency, and \$12 million for the Defense Contract Audit Agency. The bill also provides \$21 million to permit the temporary assignment of 600 contract specialists from the General Services Administration to help DOD oversee contracts. This requires Secretary of Defense to develop minimum standards for all contractors performing security functions and to establish a clear set of rules of engagement for those operating in Iraq and Afghanistan, within 90 days of the bill's enactment. It also requires a report that identifies: 1) DOD acquisition workforce needs; and 2) tools to recruit and retain these personnel in order to provide adequate management of contracts and oversight of contract performance.

Last, the bill includes some other key provisions such as the prohibition of any permanent U.S. military bases in Iraq or the use of torture or cruel or inhumane treatment of detainees.

Born and raised in Delaware County, former 3-star Admiral Joe Sestak served in the Navy for 31 years and now serves as the Representative from the 7th District of Pennsylvania. He led a series of operational commands at sea, including Commander of an aircraft carrier battle group of 30 U.S. and allied ships with over 15,000 sailors and 100 aircraft that conducted operations in Afghanistan and Iraq. After 9/11, Joe was the first Director of "Deep Blue," the Navy's anti-terrorism unit that established strategic and operations policies for the "Global War on Terrorism." He served as President Clinton's Director for Defense Policy at the National Security Council in the White House, and holds a Ph.D. in Political Economy and Government from Harvard University. According to the office of the House Historian, Joe is the highest-ranking former military officer ever elected to the U.S. Congress.